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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of
THOMAS Q. HU ET AL

Serial No. 10/532,138

Filed April 20, 2005

For: LIGHT-STABLE AND PROCESS-STABLE
LIGNOCELLULOSIC MATERIALS AND
THEIR PRODUCTION

Art Unit 1731

Examiner - Michael J. Felton

Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450
U. S. A.

REQUEST FOR CORRECTION
OF ERROR IN INVENTOR'S NAME

Sir:

Attached is a copy of the cover page of the Publication of this application, i.e.,
US 2005/0269049.

There is a minor typographical error in the family name of the second named
inventor as it appears on the cover of the published application. The name should be:
Pikulik.

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The Commissioner of Patents

Serial No. 10/532,138

The correct spelling of the name is shown in the papers filed in the Patent Office, and it is requested that the record be corrected to ensure that the name is correctly shown when the application proceeds to patent.

Respectfully,

THOMAS Q. HU ET AL

By:


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(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2005/0269049 A1**

Hu et al.

(43) **Pub. Date:** Dec. 8, 2005(54) **LIGHT-STABLE AND PROCESS-STABLE LIGNOCELLULOSIC MATERIALS AND THEIR PRODUCTION**(75) **Inventors:** Thomas Q. Hu, Vancouver (CA); Ivan I. Pilulik, Pointe-Claire (CA); Trevor Williams, Richmond (CA)

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(73) **Assignee:** Pulp and Paper Research Institute of Canada, Quebec (CA)(21) **Appl. No.:** 10/532,138(22) **PCT Filed:** Oct. 21, 2003(86) **PCT No.:** PCT/CA03/01606**Related U.S. Application Data**(60) **Provisional application No. 60/420,282, filed on Oct. 23, 2002.****Publication Classification**(51) **Int. Cl.⁷** **D21C 9/10**
(52) **U.S. Cl.** 162/72; 162/78; 162/162(57) **ABSTRACT**

A novel method for the production of light-stable and process-stable lignocellulosic materials, in particular, the production of mechanical wood pulps with much improved light and process stability is described, as well as the resulting pulps of improved light and process stability and papers containing such pulps. The novel method involves the reaction of lignocellulosic materials such as bleached chemithermomechanical pulps (BCTMP) with (a) a water-soluble, fibre-reactive yellowing inhibitor possessing two or more secondary amino or ammonium ($-NH_2$ or $-NH^+R$), tertiary amino or ammonium ($-NR_2$ or $-NH^+R_2$), and/or quaternary ammonium ($-N^+R_3$) functional groups in an aqueous medium, or (b) a water-soluble, fibre-reactive hindered amine light stabilizer possessing said amino or ammonium functional groups in an alkaline peroxide bleaching medium or in an aqueous medium with a subsequent bleaching of the materials in an alkaline peroxide bleaching medium. Examples of the water-soluble, fibre-reactive yellowing inhibitors are the novel, N-(2,2,6,6-tetramethyl-1-oxyl-piperidin-4-yl)-N'-{2-[2-(2,2,6,6-tetramethyl-1-oxyl-piperidin-4-ylamino)-ethylamino]-ethyl}-ethane-1,2-diamine (abbreviated as TETA-2TEMPO) and its hydroxylamine hydrochloride derivative, N-(2,2,6,6-tetramethyl-1-hydroxyl-piperidin-4-yl)-N'-{2-[2-(2,2,6,6-tetramethyl-1-hydroxyl-piperidin-4-ylamino)-ethylamino]-ethyl}-ethane-1,2-diamine hexahydrochloride (abbreviated as TETA-2TEMPOH-6HCl).